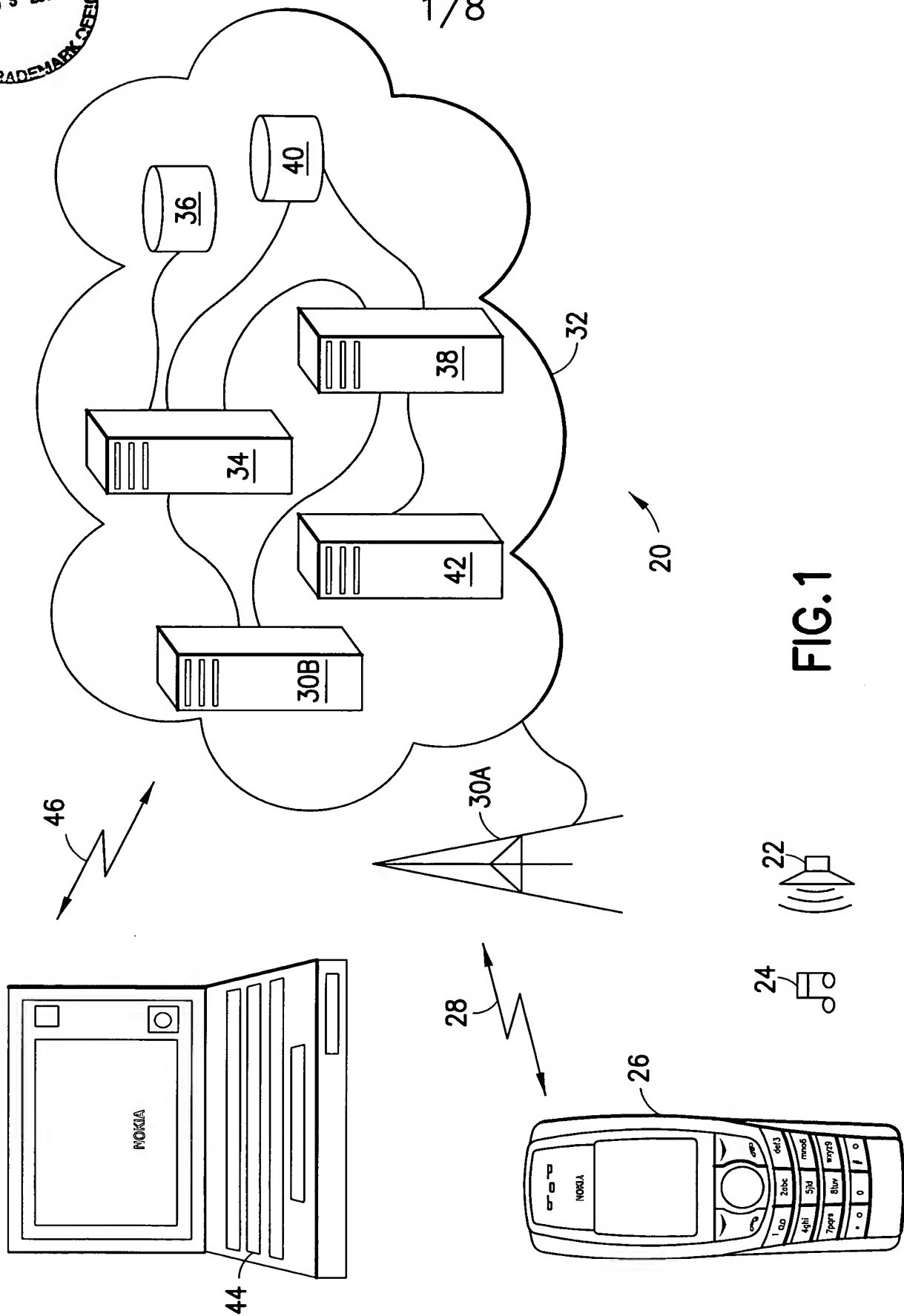




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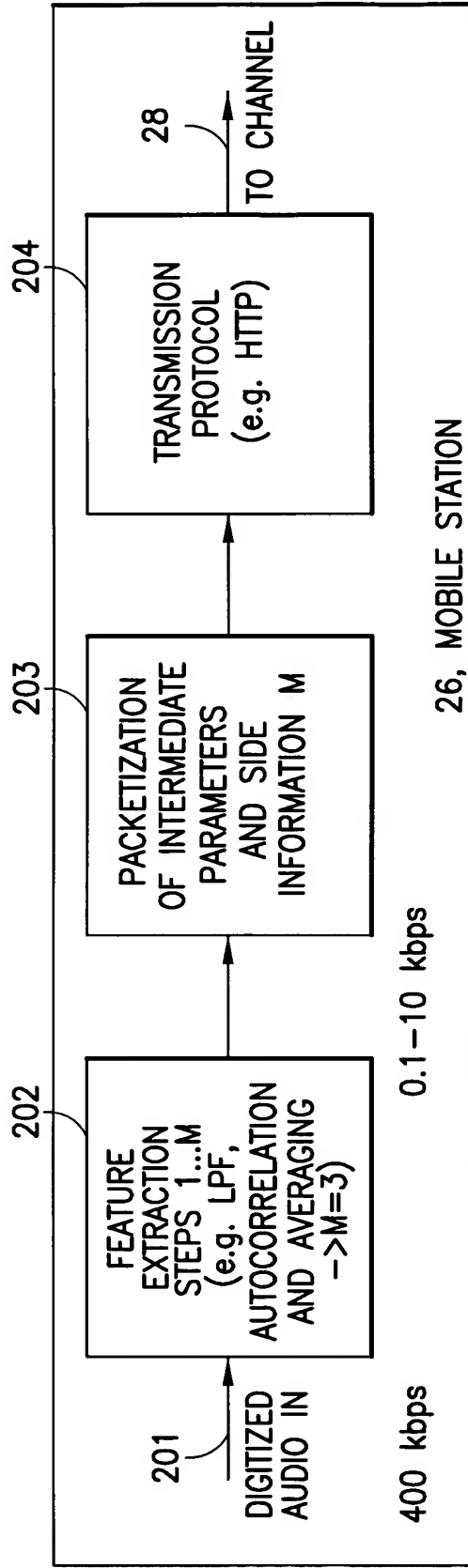


FIG.2A

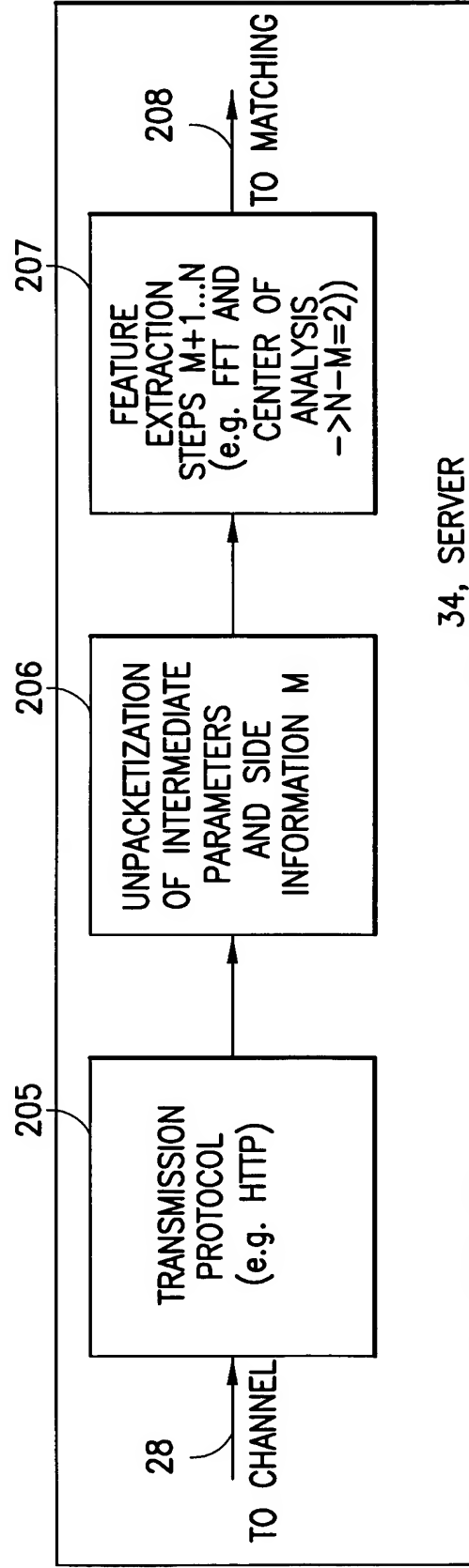


FIG.2B



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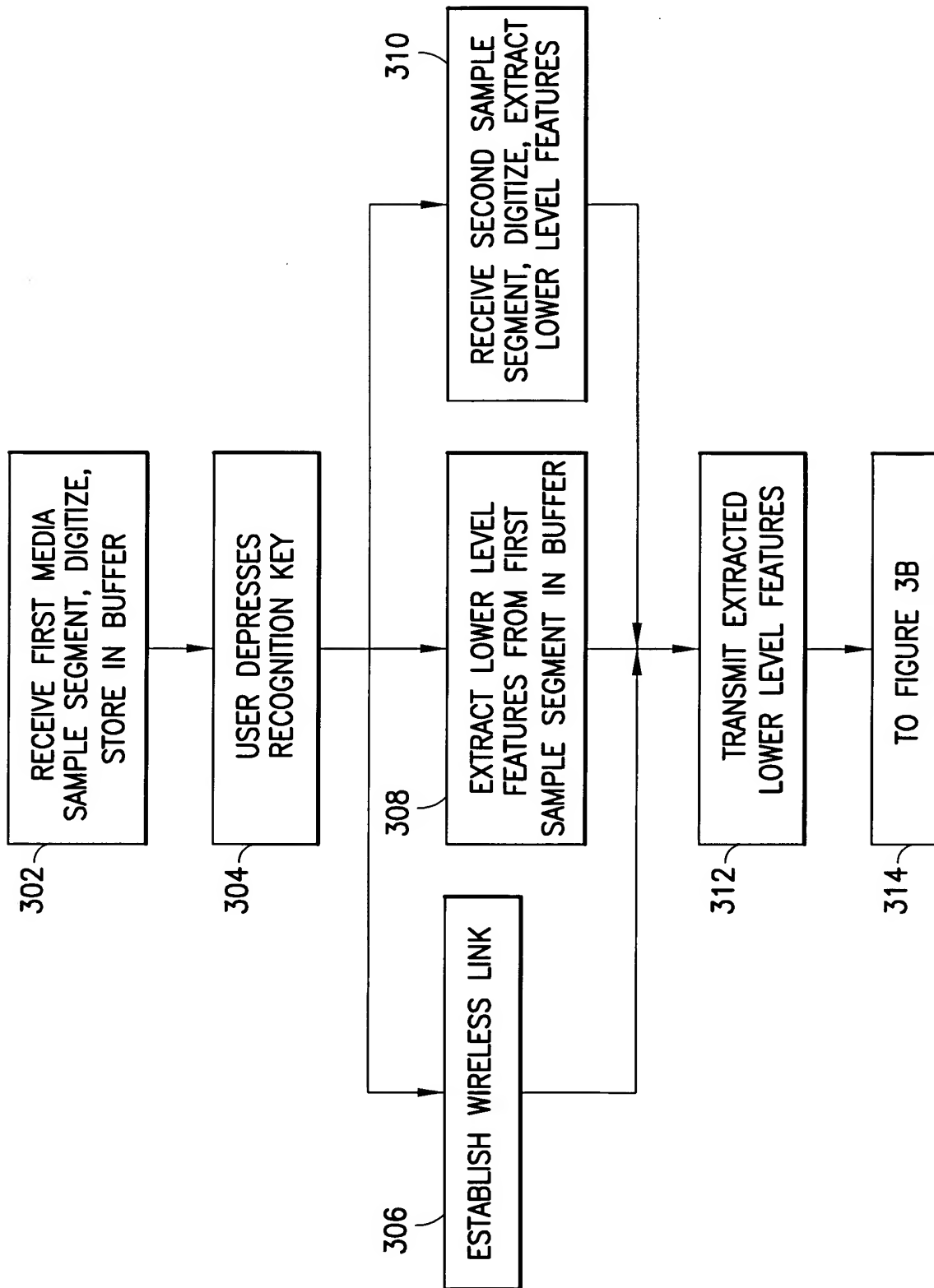


FIG. 3A

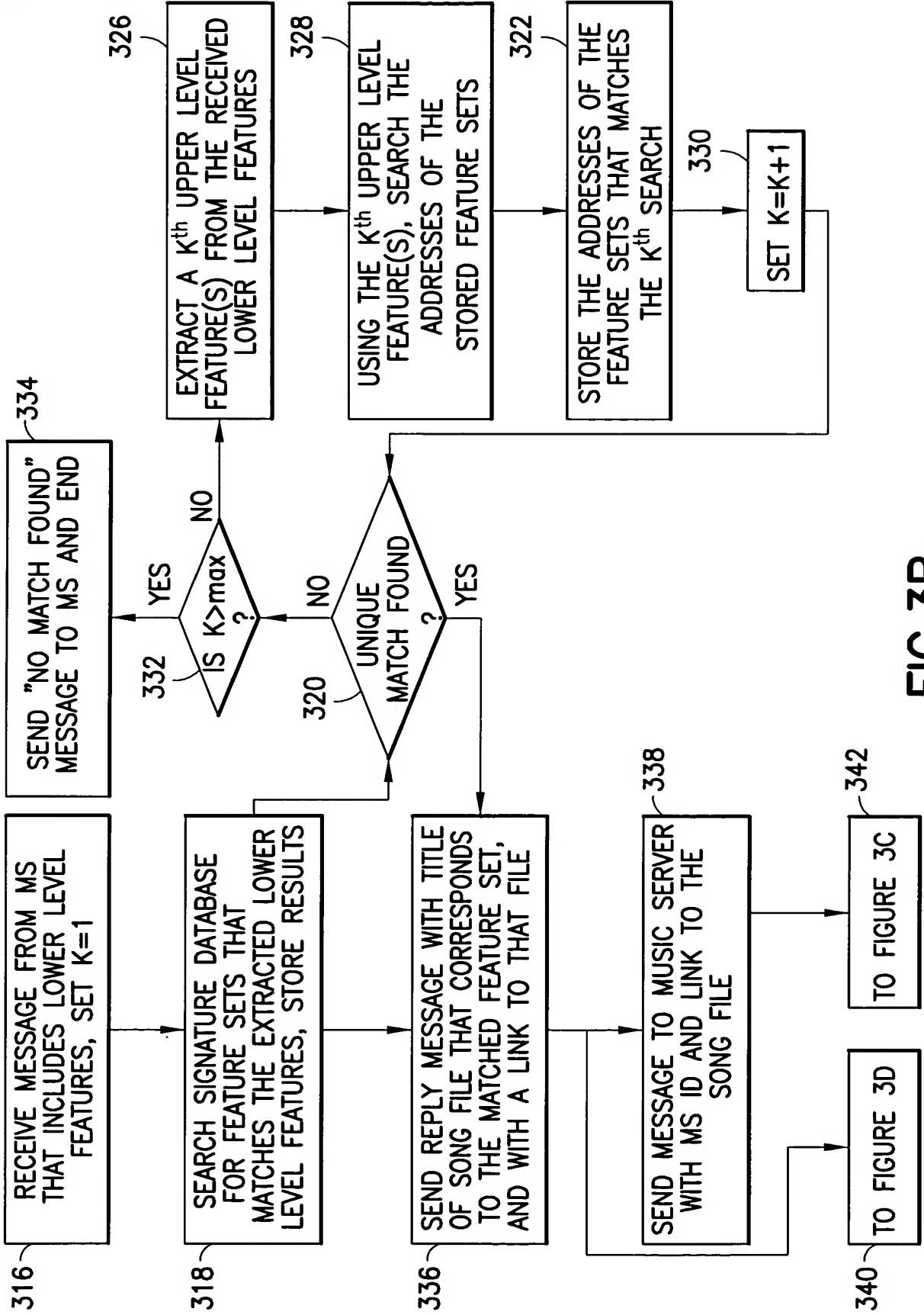


FIG. 3B



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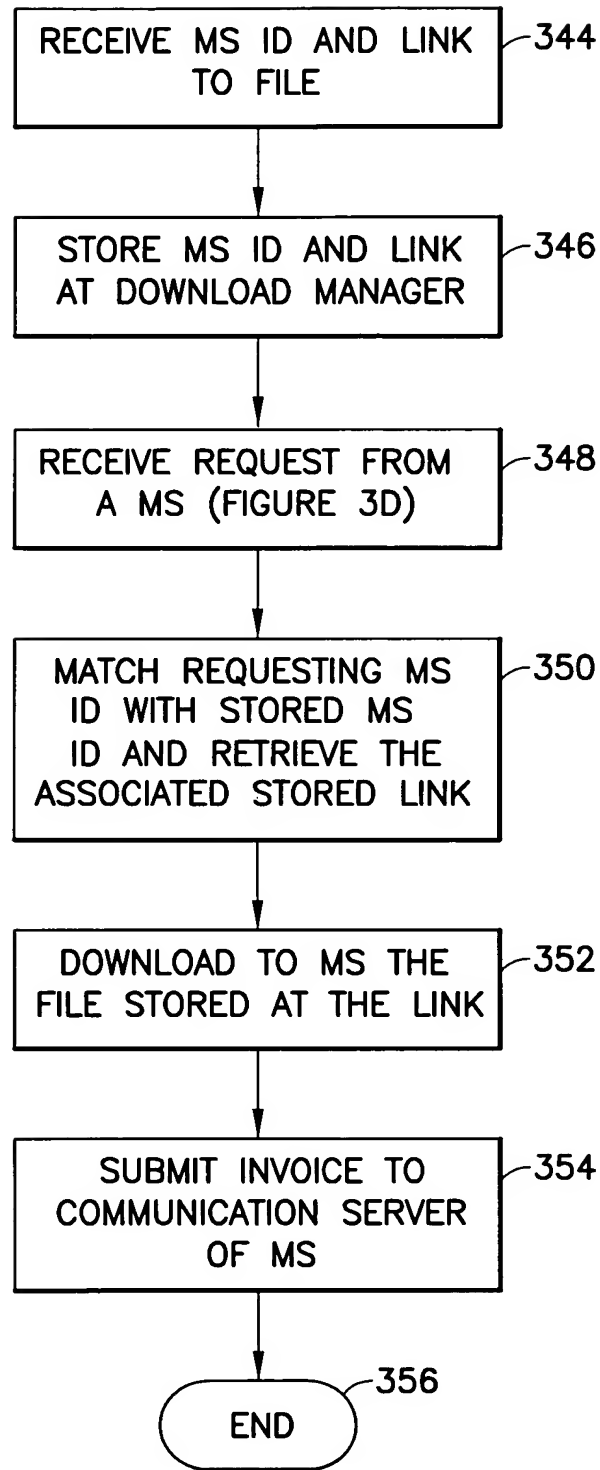


FIG.3C



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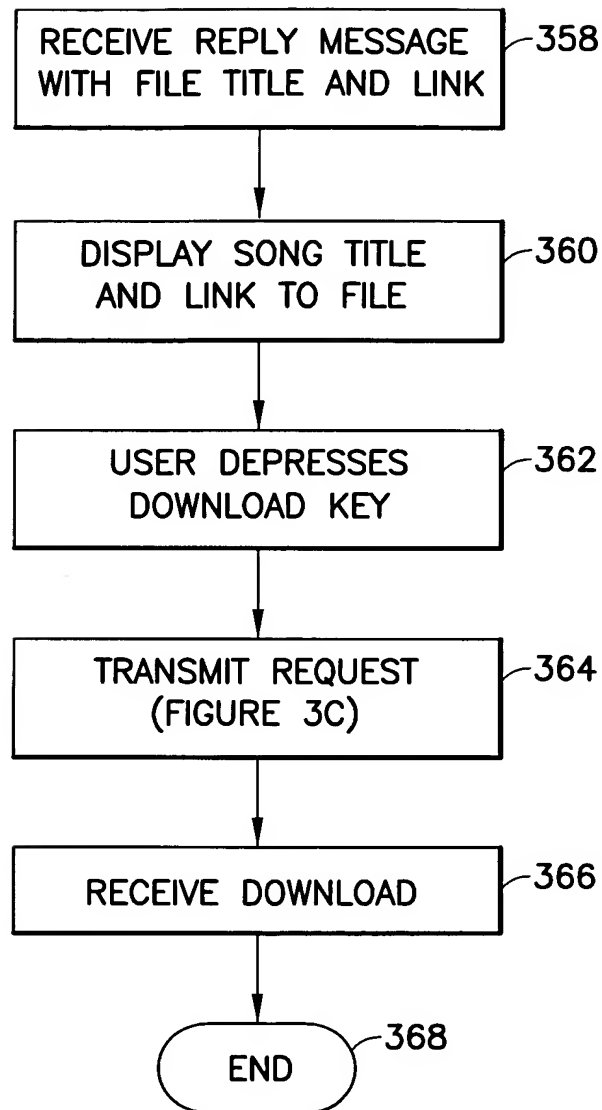


FIG.3D



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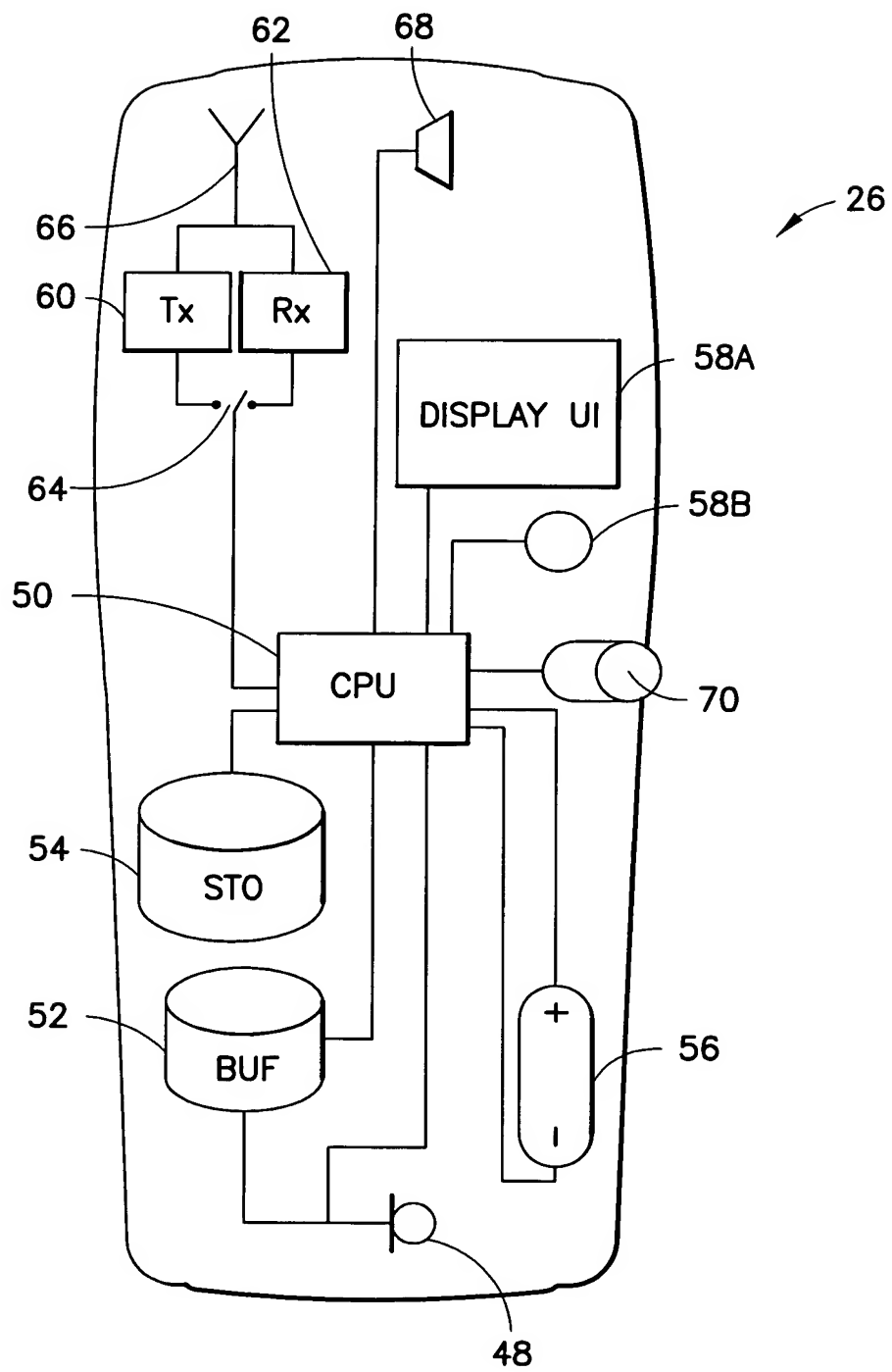


FIG.4



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HEADSTART OF MUSIC RECOGNITION → FASTER RESULT

MUSIC PLAYING 501

502

USER LISTENING

504

PUSHING
RECOGNITION
BUTTON

RECOGNITION WITHOUT
PRE-BUFFERING

ΔT

RECOGNITION WITH PRE-BUFFERING

ΔT

506

508

RECOGNITION
RESULT COMES
EARLIER,
512

510

FIG.5